

KHADRA SOLAR TECHNOLOGY (HK) LIMITED

UNIT 1303-1304, 13/F, ALLIANCE BUILDING,
130-136 CONNAUGHT ROAD CENTRAL, HONG KONG
TEL: (852) 2525-9617 . FAX: (852) 2537-1301 / 2526-0365

MATERIAL SAFETY DATA SHEET

page 1 of 3

MATERIAL SAFETY DATA SHEET N/A=Not Applicable Effective Date 4/07 Rev.7/17

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME: LiFePO4 BATTERY NPCA Hazard Material ID System
Neutrallizing Absorber
GENERIC NAME: Dry Powder Chemical Blend Health 0
PROPER SHIPPING NAME: N/A Flammability 0
Reactivity 0
Max Personal Protection Sect 8

SECTION 2 INGREDIENTS

- 2.1 Proprietary : No
Ingredient : LiFePO4
Ingredient Sequence number : 01
Function : major material for positive
Percent : 59
- 2.2 Proprietary : No
Ingredient : C
Ingredient Sequence number : 02
Function : additive for positive
Percent : 2
- 2.3 Proprietary : No
Ingredient : C
Ingredient Sequence number : 03
Function : major material for negative
Percent: 33
- 2.4 Proprietary: No
Ingredient : LiPF6
Ingredient: Sequence number 04
Function : electrolyte
Percent: 1

MATERIAL SAFETY DATA SHEET

page 2 of 3

SECTION 3 PHYSICAL DATA

BOILING RANGE : N/A
VAPOR PRESSURE : N/A
VAPOR DENSITY : N/A
% VOLATILE : N/A
SOLUBILITY IN WATER: Partial/absorbs water
PHYSICAL DESCRIPTION : Black particies, no odor
SPECIFIC GRAVITY: 1.2-1.3
PH: N/A
EVAPORATION RATE: N/A

SECTION 4 FIRE & EXPLOSION HAZARD

FLASH POINT: N/A
UPPER EXPLOSIVE LIMIT: N/A
LOWER EXPLOSIVE LIMIT: N/A
EXTINGUISHING METHOD: N/A
SPECIAL FIRE FIGHTING PROCEDURE : N/A
UNUSUAL FIRE&EXPLOSION HAZARD : Useful in suffocating some fires

SECTION 5 REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY: None known
HAZARDOUS DECOMPOSITION PRODUCTS: None known
HAZARDOUS POLYMERIZATION: Will not occur

SECTION 6 STORAGE AND HANDLING

PRECAUTIONS IN HANDLING & STORAGE
For use by trained personnel only keep container closed during storage
Follow good personal hygiene

SECTION 7 HEALTH HAZARDOUS & FIRST AID

EFFECTS OF OVEREXPOSE:
Skin: No adverse effects likely
Eyes: No adverse effects likely
Inhalation: Large amounts may irritate respiratory system
Ingestion: Large amounts may result in nausea
FIRST AID PROCEDURE
Skin: Flush residual debris from skin
Eyes: Flush eyes
Inhalation: Remove to fresh air

MATERIAL SAFETY DATA SHEET

Inhalation: In case of significant amounts induce vomiting

SHOULD SYMPTOMS PERSIST-SEEK MEDICAL ATTENTION

SECTION 8 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: General ventilation

PROTECTIVE GLOVES: Chemical resistant

VENTILATION: General Ventilation

EYE PROTECTION: Safety goggles or face shield

OTHER PROTECTIVE EQUIPMENT: Follow safety procedure for material to be neutralized

SECTION 9 SPILL OR LEAK PROTECTION INFORMATION

MATERIAL RELEASE OF SPILL: Sweep or vacuum

WASTE DISPOSAL METHOD: Uncontaminated material is not hazardous. Dispose in accordance with local, state, federal regulations.

Section 10 PRECAUTIONS TO ENSURE THE SAFETY ON HANDLING BATTERY

(1) Short-circuiting

Never short-circuit the batteries, that may damage appliances or you may be burned by the heat generated by the batteries.

(2) Throwing batteries into a fire or water

Never throw batteries into a fire. Batteries may leak when disposed of in a fire. Never throw them into water since the battery functions will be lost.

(3) Inserting the batteries with their polarities reversed

Never insert a battery with the positive and negative poles reversed, as this can cause the battery to swell or rupture.

(4) Overcharging at high currents and reverse charging

Never reverse charge or overcharge with high current. Doing so causes rapid gas generation and increased gas pressure, thus causing batteries to swell or rupture.

(5) Disassembly or mutilation

Never disassemble batteries, as the batteries may be short-circuited or the strong alkaline electrolyte inside may hurt skin and clothes.

(6) Using old and new batteries together

Avoid using old and new batteries together. Also avoid using these batteries with ordinary dry-cell, Ni-MH batteries or with another manufacture's batteries.